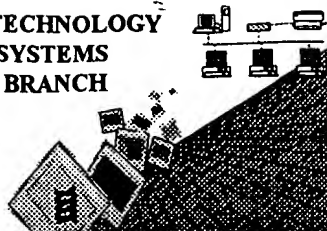


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BIOTECHNOLOGY
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BRANCH



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Revised 01/29/2002



OIEP

RAW SEQUENCE LISTING

DATE: 02/10/2002

PATENT APPLICATION: US/09/840,669A

TIME: 13:03:42

Input Set : A:\A-690.ST25.txt

Output Set: N:\CRF3\02102002\I840669A.raw

3 <110> APPLICANT: KOHNO, TADAHIKO
 5 <120> TITLE OF INVENTION: APO-AI/AII PEPTIDE DERIVATIVES
 7 <130> FILE REFERENCE: A-690
 9 <140> CURRENT APPLICATION NUMBER: 09/840,669A
 10 <141> CURRENT FILING DATE: 2001-04-23
 12 <150> PRIOR APPLICATION NUMBER: 60/198,920
 13 <151> PRIOR FILING DATE: 2000-04-21
 15 <160> NUMBER OF SEQ ID NOS: 11
 17 <170> SOFTWARE: PatentIn version 3.1
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 684
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Homo sapiens
 24 <220> FEATURE:
 25 <221> NAME/KEY: CDS
 26 <222> LOCATION: (1)..(684)
 27 <223> OTHER INFORMATION:
 30 <400> SEQUENCE: 1

31 atg gac aaa act cac aca tgt cca cct tgt cca gct ccg gaa ctc ctg 48
 32 Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
 33 1 5 10 15
 35 ggg gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc 96
 36 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 37 20 25 30
 39 atg atc tcc ccg acc cct gag gtc aca tgc gtg gtg gtg gac gtg agc 144
 40 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
 41 35 40 45
 43 cac gaa gac cct gag gtc aag ttc aac tgg tac gtg gac ggc gtg gag 192
 44 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 45 50 55 60
 47 gtg cat aat gcc aag aca aag ccg cgg gag gag cag tac aac agc acg 240
 48 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 49 65 70 75 80
 51 tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg aat 288
 52 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 53 85 90 95
 55 ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc ccc 336
 56 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 57 100 105 110
 59 atc gag aaa acc atc tcc aaa gcc aaa ggg cag ccc cga gaa cca cag 384
 60 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 61 115 120 125
 63 gtg tac acc ctg ccc cca tcc ccg gat gag ctg acc aag aac cag gtc 432

Does Not Comply
 Corrected Diskette Needed

RAW SEQUENCE LISTING

DATE: 02/10/2002

PATENT APPLICATION: US/09/840,669A

TIME: 13:03:42

Input Set : A:\A-690.ST25.txt

Output Set: N:\CRF3\02102002\I840669A.raw

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64 Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
65      130                      135                      140
67 agc ctg acc tgc ctg gtc aaa ggc ttc tat ccc agc gac atc gcc gtg      480
68 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
69 145                      150                      155                      160
71 gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc acg cct      528
72 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
73                      165-                      170                      175
75 ccc gtg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc aag ctc acc      576
76 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
77                      180                      185                      190
79 gtg gac aag agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtg      624
80 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
81      195                      200                      205
83 atg cat gag gct ctg cac aac cac tac acg cag aag agc ctc tcc ctg      672
84 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
85      210                      215                      220
87 tct ccg ggt aaa      684
88 Ser Pro Gly Lys
89 225
92 <210> SEQ ID NO: 2
93 <211> LENGTH: 228
94 <212> TYPE: PRT
95 <213> ORGANISM: Homo sapiens
97 <400> SEQUENCE: 2
99 Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
100 1      5      10      15
103 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
104      20      25      30
107 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
108      35      40      45
111 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
112      50      55      60
115 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
116 65      70      75      80
119 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
120      85      90      95
123 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
124      100      105      110
127 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
128      115      120      125
131 Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
132      130      135      140
135 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
136 145      150      155      160
139 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
140      165      170      175
143 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
144      180      185      190

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RAW SEQUENCE LISTING

DATE: 02/10/2002

PATENT APPLICATION: US/09/840,669A

TIME: 13:03:42

Input Set : A:\A-690.ST25.txt

Output Set: N:\CRF3\02102002\I840669A.raw

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147 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
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151 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
152       210                215                220
155 Ser Pro Gly Lys
156 225
159 <210> SEQ ID NO: 3
160 <211> LENGTH: 8
161 <212> TYPE: PRT
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Preferred linker
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170 1          5
173 <210> SEQ ID NO: 4
174 <211> LENGTH: 7
175 <212> TYPE: PRT
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: Preferred linker
181 <400> SEQUENCE: 4
183 Gly Gly Asn Gly Ser Gly Gly
184 1          5
187 <210> SEQ ID NO: 5
188 <211> LENGTH: 8
189 <212> TYPE: PRT
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Preferred linker
195 <400> SEQUENCE: 5
197 Gly Gly Gly Cys Gly Gly Gly Gly
198 1          5
201 <210> SEQ ID NO: 6
202 <211> LENGTH: 5
203 <212> TYPE: PRT
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Preferred linker
209 <400> SEQUENCE: 6
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212 1          5
215 <210> SEQ ID NO: 7
216 <211> LENGTH: 18
217 <212> TYPE: PRT
218 <213> ORGANISM: Homo sapiens
220 <400> SEQUENCE: 7
222 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu
223 1          5                10                15

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RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/840,669A

TIME: 13:03:42

Input Set : A:\A-690.ST25.txt

Output Set: N:\CRF3\02102002\I840669A.raw

226 Ala Phe
 230 <210> SEQ ID NO: 8
 231 <211> LENGTH: 18
 232 <212> TYPE: PRT
 233 <213> ORGANISM: Artificial Sequence
 235 <220> FEATURE:
 236 <223> OTHER INFORMATION: Preferred embodiments
 238 <220> FEATURE:
 239 <221> NAME/KEY: misc_feature
 240 <222> LOCATION: (18)..(18)
 241 <223> OTHER INFORMATION: Fc domain attached at Position 18 through an optional linker
 244 <400> SEQUENCE: 8
 246 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu
 247 1 5 10 15
 250 Ala Phe
 254 <210> SEQ ID NO: 9
 255 <211> LENGTH: 18
 256 <212> TYPE: PRT
 257 <213> ORGANISM: Artificial Sequence
 259 <220> FEATURE:
 260 <223> OTHER INFORMATION: Preferred embodiments
 262 <220> FEATURE:
 263 <221> NAME/KEY: misc_feature
 264 <222> LOCATION: (1)..(1)
 265 <223> OTHER INFORMATION: Fc domain attached through optional linker
 268 <400> SEQUENCE: 9
 270 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu
 271 1 5 10 15
 274 Ala Phe
 278 <210> SEQ ID NO: 10
 279 <211> LENGTH: 18
 280 <212> TYPE: PRT
 281 <213> ORGANISM: Artificial Sequence
 283 <220> FEATURE:
 284 <223> OTHER INFORMATION: Preferred embodiments
 286 <220> FEATURE:
 287 <221> NAME/KEY: misc_feature ? only 18 amino acids are shown
 288 <222> LOCATION: (19)..(19)
 289 <223> OTHER INFORMATION: Attached by optional linker to identical sequence, which is
 attac
 290 hed by optional linker to an Fc domain
 293 <400> SEQUENCE: 10
 295 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu
 296 1 5 10 15
 299 Ala Phe
 303 <210> SEQ ID NO: 11
 304 <211> LENGTH: 18
 305 <212> TYPE: PRT
 306 <213> ORGANISM: Artificial Sequence
 308 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 02/10/2002

PATENT APPLICATION: US/09/840,669A

TIME: 13:03:42

Input Set : A:\A-690.ST25.txt

Output Set: N:\CRF3\02102002\I840669A.raw

309 <223> OTHER INFORMATION: Preferred embodiments
311 <220> FEATURE:
312 <221> NAME/KEY: misc_feature
313 <222> LOCATION: (1)..(1)
314 <223> OTHER INFORMATION: Attached by optional linker to Fc domain at the N-terminus.
318 <220> FEATURE:
319 <221> NAME/KEY: misc_feature
320 <222> LOCATION: (18)..(18)
321 <223> OTHER INFORMATION: Attached by optional linker to an identical sequence
324 <400> SEQUENCE: 11
326 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu
327 1 5 10 15
330 Ala Phe

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/840,669A

DATE: 02/10/2002

TIME: 13:03:43

Input Set : A:\A-690.ST25.txt

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